

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10/572, 189 A

Source:

IFW0

Date Processed by STIC:

08/25/2006

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:58

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw

```

3 <110> APPLICANT: Ostermann, Kai
4   Rodel, Gerhard
6 <120> TITLE OF INVENTION: SECRETION OF PROTEINS FROM YEASTS
8 <130> FILE REFERENCE: 13111-00033-US
10 <140> CURRENT APPLICATION NUMBER: US 10/572,189A
11 <141> CURRENT FILING DATE: 2006-03-15
14 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/010346
15 <151> PRIOR FILING DATE: 2004-09-15
17 <150> PRIOR APPLICATION NUMBER: DE 103 42 794.5
18 <151> PRIOR FILING DATE: 2003-09-16
20 <160> NUMBER OF SEQ ID NOS: 56
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 171
26 <212> TYPE: DNA
27 <213> ORGANISM: Schizosaccharomyces pombe
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(171)
33 <400> SEQUENCE: 1
34 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc      48
35 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
36 1           5           10           15
37 tca cct att cca gtt gcc gat cct ggt gtg gtt tca gtt agc aag tca      96
38 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser
39           20           25           30
40 tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt gct aat      144
41 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn
42           35           40           45
43 cct gat aga ccc aac ttg aaa aag cgc      171
44 Pro Asp Arg Pro Asn Leu Lys Lys Arg
45 50           55
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 57
49 <212> TYPE: PRT
50 <213> ORGANISM: Schizosaccharomyces pombe
52 <400> SEQUENCE: 2
53 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
54 1           5           10           15
55 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser
56           20           25           30
57 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn
58           35           40           45

```

RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:58

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw

```

59 Pro Asp Arg Pro Asn Leu Lys Lys Arg
60      50                      55
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 60
64 <212> TYPE: DNA
65 <213> ORGANISM: Schizosaccharomyces pombe
67 <220> FEATURE:
68 <221> NAME/KEY: CDS
69 <222> LOCATION: (1)..(60)
71 <220> FEATURE:
72 <221> NAME/KEY: sig_peptide
73 <222> LOCATION: (1)..(60)
75 <400> SEQUENCE: 3
76 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc      48
77 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
78 1                      5                      10                      15
79 tca cct att cca                                          60
80 Ser Pro Ile Pro
81                      20
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 20
85 <212> TYPE: PRT
86 <213> ORGANISM: Schizosaccharomyces pombe
88 <400> SEQUENCE: 4
89 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
90 1                      5                      10                      15
91 Ser Pro Ile Pro
92                      20
94 <210> SEQ ID NO: 5
95 <211> LENGTH: 81
96 <212> TYPE: DNA
97 <213> ORGANISM: Schizosaccharomyces pombe
99 <220> FEATURE:
100 <221> NAME/KEY: CDS
101 <222> LOCATION: (1)..(81)
103 <400> SEQUENCE: 5
104 aag tca tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt      48
105 Lys Ser Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe
106 1                      5                      10                      15
107 gct aat cct gat aga ccc aac ttg aaa aag cgc      81
108 Ala Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg
109                      20                      25
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 27
113 <212> TYPE: PRT
114 <213> ORGANISM: Schizosaccharomyces pombe
116 <400> SEQUENCE: 6
117 Lys Ser Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe
118 1                      5                      10                      15

```

RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:58

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw

```

119 Ala Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg
120          20          25
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 78
124 <212> TYPE: DNA
125 <213> ORGANISM: Schizosaccharomyces pombe
127 <220> FEATURE:
128 <221> NAME/KEY: CDS
129 <222> LOCATION: (1)..(78)
131 <220> FEATURE:
132 <221> NAME/KEY: sig_peptide
133 <222> LOCATION: (1)..(60)
135 <400> SEQUENCE: 7
136 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc      48
137 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
138 1          5          10          15
139 tca cct att cca gtt gcc gat cct ggt gtg      78
140 Ser Pro Ile Pro Val Ala Asp Pro Gly Val
141          20          25
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 26
145 <212> TYPE: PRT
146 <213> ORGANISM: Schizosaccharomyces pombe
148 <400> SEQUENCE: 8
149 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
150 1          5          10          15
151 Ser Pro Ile Pro Val Ala Asp Pro Gly Val
152          20          25
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 606
156 <212> TYPE: DNA
157 <213> ORGANISM: Schizosaccharomyces pombe
159 <220> FEATURE:
160 <221> NAME/KEY: CDS
161 <222> LOCATION: (1)..(606)
163 <400> SEQUENCE: 9
164 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc      48
165 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
166 1          5          10          15
167 tca cct att cca gtt gcc gat cct ggt gtg gtt tca gtt agc aag tca      96
168 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser
169          20          25          30
170 tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt gct aat      144
171 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn
172          35          40          45
173 cct gat aga ccc aac ttg aaa aag cgc gaa ttc gaa gct gct ccc gca      192
174 Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala Pro Ala
175          50          55          60
176 aaa act tat gct gat ttc ctt cgt gct tat caa agt tgg aac act ttt      240

```

RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:58

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw

```

177 Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser Trp Asn Thr Phe
178 65 70 75 80
179 gtt aat cct gac aga ccc aat ttg aaa aag cgt gag ttt gaa gct gcc 288
180 Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala
181 85 90 95
182 cca gag aag agt tat gct gat ttc ctt cgt gct tac cat agt tgg aac 336
183 Pro Glu Lys Ser Tyr Ala Asp Phe Leu Arg Ala Tyr His Ser Trp Asn
184 100 105 110
185 act ttt gtt aat cct gac aga ccc aac ttg aaa aag cgc gaa ttc gaa 384
186 Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu
187 115 120 125
188 gct gct ccc gca aaa act tat gct gat ttc ctt cgt gct tac caa agt 432
189 Ala Ala Pro Ala Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser
190 130 135 140
191 tgg aac act ttt gtt aat cct gac aga ccc aac ttg aaa aag cgc act 480
192 Trp Asn Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Thr
193 145 150 155 160
194 gaa gaa gat gaa gag aat gag gaa gag gat gaa gaa tac tat cgc ttt 528
195 Glu Glu Asp Glu Glu Asn Glu Glu Glu Asp Glu Glu Tyr Tyr Arg Phe
196 165 170 175
197 ctt cag ttt tat atc atg act gtc cca gag aat tcc act att aca gat 576
198 Leu Gln Phe Tyr Ile Met Thr Val Pro Glu Asn Ser Thr Ile Thr Asp
200 180 185 190
201 gtc aat att act gcc aaa ttt gag agc taa 606
202 Val Asn Ile Thr Ala Lys Phe Glu Ser
203 195 200
205 <210> SEQ ID NO: 10
206 <211> LENGTH: 201
207 <212> TYPE: PRT
208 <213> ORGANISM: Schizosaccharomyces pombe
210 <400> SEQUENCE: 10
211 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala
212 1 5 10 15
213 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser
214 20 25 30
215 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn
216 35 40 45
217 Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala Pro Ala
218 50 55 60
219 Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser Trp Asn Thr Phe
220 65 70 75 80
221 Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala
222 85 90 95
223 Pro Glu Lys Ser Tyr Ala Asp Phe Leu Arg Ala Tyr His Ser Trp Asn
224 100 105 110
225 Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu
226 115 120 125
227 Ala Ala Pro Ala Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser
228 130 135 140

```

RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:58

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw

```

229 Trp Asn Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Thr
230 145                      150                      155                      160
231 Glu Glu Asp Glu Glu Asn Glu Glu Glu Asp Glu Glu Tyr Tyr Arg Phe
232                      165                      170                      175
233 Leu Gln Phe Tyr Ile Met Thr Val Pro Glu Asn Ser Thr Ile Thr Asp
234                      180                      185                      190
235 Val Asn Ile Thr Ala Lys Phe Glu Ser
236                      195                      200
238 <210> SEQ ID NO: 11
239 <211> LENGTH: 156
240 <212> TYPE: DNA
241 <213> ORGANISM: Unknown
243 <220> FEATURE:
244 <223> OTHER INFORMATION: HA-tag
246 <220> FEATURE:
247 <221> NAME/KEY: CDS
248 <222> LOCATION: (1)..(156)
250 <400> SEQUENCE: 11
251 ctg gtt ccg cgt gga tcc acc gaa ggt cgt ggc ggc cgc atc ttt tac      48
252 Leu Val Pro Arg Gly Ser Ile Glu Gly Arg Gly Gly Arg Ile Phe Tyr
253 1                      5                      10                      15
254 cca tac gat gtt cct gac tat gcg ggc tat ccc tat gac gtc ccg gac      96
255 Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val Pro Asp
256                      20                      25                      30
257 tat gca gga tcc tat cca tat gac gtt cca gat tac gct gct cag tgc      144
258 Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ala Gln Cys
259                      35                      40                      45
260 ggc cgc taa tag      156
261 Gly Arg
262                      50
264 <210> SEQ ID NO: 12
265 <211> LENGTH: 50
266 <212> TYPE: PRT
267 <213> ORGANISM: Unknown
269 <220> FEATURE:
270 <223> OTHER INFORMATION: HA-tag
272 <400> SEQUENCE: 12
273 Leu Val Pro Arg Gly Ser Ile Glu Gly Arg Gly Gly Arg Ile Phe Tyr
274 1                      5                      10                      15
275 Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val Pro Asp
276                      20                      25                      30
277 Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ala Gln Cys
278                      35                      40                      45
279 Gly Arg
280                      50
282 <210> SEQ ID NO: 13
283 <211> LENGTH: 354
284 <212> TYPE: DNA
285 <213> ORGANISM: Aspergillus nidulans

```

VERIFICATION SUMMARY

DATE: 08/25/2006

PATENT APPLICATION: US/10/572,189A

TIME: 12:14:59

Input Set : A:\Sequence Listing (13111-00033-US).txt

Output Set: N:\CRF4\08252006\J572189A.raw